

### Urban Management Measure Objectives - Suggested

Objective	Measure of Success	Resources Needed	Responsible Entity	Time Frame
<b>Objective 1 – (Geographically Exempted)</b> Ensure the reduction of pollution and stormwater associated with new development and induced changes in hydrology, where applicable	i. 80% Reduction in Total suspended solids or reduce post dev loadings of TSS so that avg annual TSS loadings are no greater than predevelopment loadings & ii. Maintain post development peak runoff and average volume similar to pre-development levels	<ul style="list-style-type: none"> <li>- Partnerships with local entities</li> <li>- Technical assistance               <ul style="list-style-type: none"> <li>o Pre-construction – Developers and local government</li> <li>o Post-construction – Public and other</li> </ul> </li> <li>- Funding</li> <li>- Staff               <ul style="list-style-type: none"> <li>o Monitor practice implementation</li> </ul> </li> <li>- Policy/Program guidance/structure</li> </ul>	<ul style="list-style-type: none"> <li>- IDEM               <ul style="list-style-type: none"> <li>o Narrative Water Quality Standards</li> </ul> </li> <li>- IDNR</li> <li>- SWCDs</li> <li>- Drainage Boards</li> <li>- Local Planning and Zoning</li> <li>- ACOE (404)</li> <li>- Illinois-IN Sea Grant – Planning with Power</li> </ul>	<b>Years 1-5</b>
<b>Objective 2 -</b> Encourage sound planning principles, management, and mitigation measures to protect, enhance, and restore natural resources and reduce runoff to surface waters	i. Avoid conversion to the extent practicable of areas that are particularly susceptible to erosion and sediment loss; ii. Preserve areas that provide important water quality benefits and/or are necessary to maintain riparian and aquatic biota; and iii. Site development, including roads, highways, and bridges, to protect to the extent practical the natural integrity of water bodies and natural drainage systems.	<ul style="list-style-type: none"> <li>- Funding</li> <li>- Partnerships with:               <ul style="list-style-type: none"> <li>o Local Watershed groups</li> <li>o Local Entities</li> <li>o State Entities</li> <li>o Federal Entities</li> </ul> </li> <li>- Staff</li> <li>- Technical Support</li> </ul>	NIRPC Sea Grant Planning with Power Other various partners Planning & Zoning Boards Drainage Boards Cities, Towns, and Counties	<b>Years 1-15</b>
<b>Objective 3 -</b> Ensure that site-specific development designs protect, enhance, and restore natural resources and reduce runoff to surface waters	i. Protect areas that provide important water quality benefits and/or are particularly susceptible to erosion and sediment loss; ii. Limit increases of impervious areas, except where necessary; iii. Limit land disturbance activities such as clearing and grading, and cut and fill to reduce erosion and sediment loss; and iv. Limit disturbance of natural drainage features and vegetation.	<ul style="list-style-type: none"> <li>- Pilot Projects/Demonstration Sites</li> <li>- Funding</li> <li>- Technical Assistance/Education &amp; Outreach</li> <li>- Model Ordinances</li> </ul>	<ul style="list-style-type: none"> <li>- ACOE (404)</li> <li>- Sea Grant – Planning with Power</li> <li>- LMCP</li> <li>- SWCDs</li> <li>- DNR/IDEM (401)</li> <li>- Planning &amp; Zoning Boards</li> <li>- Drainage Boards</li> <li>- Cities, Towns, and Counties</li> </ul>	<b>Years 1-15</b>
<b>Objective 4 - (Exempted)</b>				

**Objective 5 - Exempted**

**Objective 6 – (Geographically Exempted)** Ensure the decrease of pollution being discharged from existing residential and industrial facilities where applicable

- i. Identify priority local and/or regional watershed pollutant reduction opportunities, e.g., improvements to existing urban runoff control structures;
- ii. Contain a schedule for implementing appropriate controls;
- iii. Limit destruction of natural conveyance systems; and
- iv. Where appropriate, preserve, enhance, or establish buffers along surface waterbodies and their tributaries.

- Funding (for BMPs)
- Staffing (identify priority areas using watershed plans/develop watershed plans where absent)
- Model Ordinances (to protect buffered areas)
- Technical Assistance/Education & Outreach

- DNR
- IDEM
- Counties
- Cities
- SWCDs
- Homeowners/Lake Associations
- RC&Ds

**Year 10-15**

**Objective 7 -** Ensure state officials permit the use of best available technology for installation and maintenance of new onsite sewage disposal systems

- i. Ensure that new on-site sewage disposal systems are located, designed, installed, operated, inspected, and maintained to prevent the discharge of pollutants to the surface of the ground and to the extent practicable reduce the discharge of pollutants into ground water that are closely hydrologically connected to surface waters
- ii. Direct placement of on-site sewage disposal systems away from unsuitable areas
- iii. Establish protective setbacks from surface waters, wetlands, and floodplains for conventional as well as alternative on-site sewage disposal systems.

- Funding
- Staff
- Model Ordinances
- BMPs
- Partnerships with
  - o Cities
  - o Counties
  - o Planning Depts
  - o Researchers
  - o Sanitary Districts
  - o ISDH
  - o County Dept Health
  - o SWCDs
- Education/Outreach (Maintaining your septic system)

- Indiana State Dept of Health
- County Health Departments
- Sanitary Districts

**Years 1-15**

**Objective 8 -** Reduce non-point source pollution resulting from onsite disposal systems.

- i. Establish and implement policies and systems to ensure that existing on-site sewage disposal systems are operated and maintained to prevent the discharge of pollutants to the surface of the ground and to the extent practicable reduce the discharge of pollutants into ground waters that are closely hydrologically connected to surface waters.
- ii. Inspect on-site sewage disposal systems at a frequency adequate to ascertain whether on-site sewage disposal systems are failing;

- Funding
- Partnerships with
  - o local entities
  - o Regulators (State)
- (Sewer Connections for existing septic areas)
- Staff

ISD  
County Health Depts  
Sanitary Districts  
Property Owners of septic

**Year 1-15**

	iii. Reduce total nitrogen loadings in the effluent by 50 percent (Exempt per Linda S?).			
<b>Objective 9</b> - Reduce the amount of non-point source pollution from everyday residential and commercial uses and activities.	i. The improper storage, use, and disposal of household hazardous chemicals, including automobiles fluids, pesticides, paints, solvents, etc.; ii. Lawn and garden activities, including the application and disposal of lawn and garden care products, and the improper disposal of leaves and yard trimmings; iii. Turf management on golf courses, parks, and recreational areas; iv. Improper operation and maintenance of Onsite Sewage Disposal Systems; v. Discharge of pollutants into storm drains including floatables, waste oil, and litter; vi. Commercial activities including parking lots, gas stations and other entities not under NPDES purview; and vii. Improper disposal of pet excrement.	- Partnerships with <ul style="list-style-type: none"> <li>o Solid Waste Districts</li> <li>o Park Districts</li> <li>o Private Entities</li> <li>o Sanitary Districts</li> <li>o City Services</li> </ul> - Model Ordinances - Local Entities/IOSHA/IDEM <ul style="list-style-type: none"> <li>o (Identify entities with Contingency Plans)</li> </ul> - Education/Outreach	- Cities/Towns/Park Districts/State Parks - State Chemist Office - Purdue Extension - Solid Waste Districts - Sanitary Districts -	<b>Year 1-15</b>
<b>Objective</b>	<b>Measure of Success</b>	<b>Resources Needed</b>	<b>Responsible Entity</b>	<b>Time Frame</b>
<b>Objective10</b> - Ensure that state officials plan, site and develop roads and highways away from areas classified as eco-significant and susceptible to erosion and sediment loss	i. Protect areas that provide important water quality benefits or are particularly susceptible to erosion or sediment loss; ii. Limit land disturbance such as clearing and grading and cut and fill to reduce erosion and sediment loss; and iii. Limit disturbance of natural drainage features and vegetation.		Toll Road Commission	
<b>Objective 11</b> – Ensure runoff associated with bridges is assessed and that appropriate stormwater quality measures and treatment is utilized to	i. Site, design, and maintain bridge structure so that sensitive and valuable aquatic ecosystems and areas providing important water quality benefits are protected from adverse effects.			

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protect critical habitat, wetlands, fisheries, and water supplies, and sensitive and valuable aquatic ecosystems and areas providing important water quality benefits are protected from adverse effects.				
<b>Objective 12 - Exempted</b>				
<b>Objective 13 - Exempted</b>				
<b>Objective 14 – Geographically Exempted</b>				
<b>Objective 15 - Geographically Exempted</b>				

**Objective 7 - Action Plan**

Action	Measure of Success	Resources Needed	Responsible Entity	Time Frame
discourage the installation of garbage disposals to reduce hydraulic and nutrient loadings				
where low-volume plumbing fixtures have not been installed in new developments or redevelopments, reduce total hydraulic loadings to the on-site sewage disposal systems by 25 percent.				<b>Year 1</b>
Implement on-site sewage disposal systems inspection schedules for pre-construction, construction, and post construction				<b>Year 4</b>
				<b>Year 4</b>
